# LA CROSSE®
TECHNOLOGY

Wireless Color Weather Station
Model: S84193 | Quick Setup Guide

La Crosse Technology® introduces a Wireless Color Weather Station that provides precise, real-time weather data straight from your backyard. New—Monitor forecast and temperature trends and set high/low temperature alerts. Animated color forecasts react to changing barometric pressure. Monitor in/out temperature and humidity with daily min/max records—all on one easy-to-read display with adjustable brightness. Wireless transmission range of over 200 feet (60 meters) in open air, from transmitter to weather station.

Wireless Color Weather Station
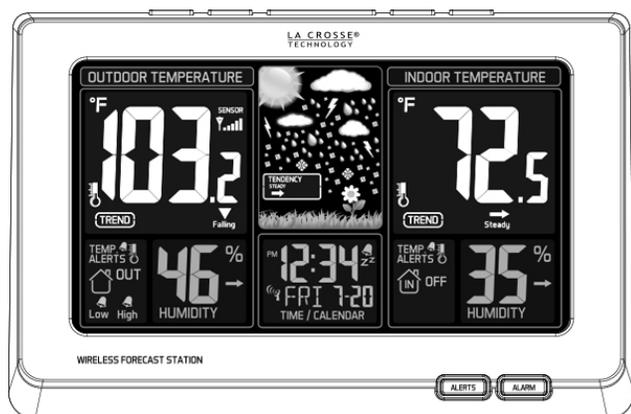
Setup Instructions Step-by-Step

STEP 1:
- Insert the 5-volt A/C power adapter into the designated area on the weather station.
- Insert the A/C power adapter into a wall outlet for continuous backlight (ON/OFF), and dimmer feature.
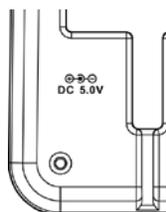
STEP 2: (optional battery operation)
- Remove battery cover from the weather station: Slide tab left and pull out to remove the cover.
- Insert 3 NEW AAA batteries (not included) into the back of the weather station. Observe the correct polarity (see marking inside the battery compartment).
- The weather station will light up and show, indoor temperature, humidity and time.
- (Press and release the HI/LOW/OFF button to illuminate the backlight for 10 seconds when using only battery power.)
- **Do Not Mix Old and New Batteries**
- **Do Not Mix Alkaline, Standard, Lithium or Rechargeable Batteries**
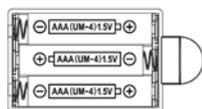
STEP 3:
- Ensure that the transmitter is within 10 feet of the weather station.
- Remove battery cover from transmitter: Slide the battery cover down and lift off the front.
- Insert 2 NEW AA batteries (not included) into the TX141TH-B transmitter. Observe the correct polarity.
- Within 3 minutes, the weather station will show readings in the Outdoor temperature area on the LCD.
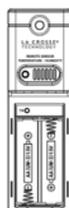
Note: Use Alkaline batteries (or Lithium for temperatures below - 20°F /-28.8°C).

Troubleshooting

- If the weather station does not show the outdoor temperature after three minutes, open the battery cover of the outdoor transmitter to reveal the TX button. Push down on the TX button for three seconds to send a wireless signal to the weather station.
- Hold the HEAT/DEW button for three seconds so the weather station searches again for the outdoor transmitter.
- If the outdoor temperature does not show up after a second attempt, remove the A/C power adapter and all batteries from both units and start the setup process again.
- For optimal 433 MHz signal reception, the outdoor transmitter should be placed within 200 feet (60 meters) from the indoor weather station.

Buttons
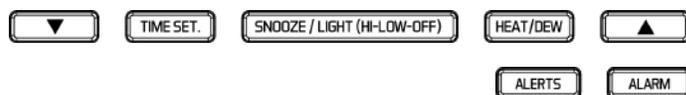
Program Menu

The TIME SET button will move through the program menu. To change a value use the ARROW buttons.
- WWVB ON/OFF: Hold the TIME SET button five seconds so **WWVB** and the word **ON** will flash. Press and release either ARROW button to turn this to OFF if you do not wish WWVB time reception. Confirm with the TIME SET button and move to time zone.
- TIME ZONE: **EST** will flash. Press and release the ARROW buttons to select a different Time Zone: AST=Atlantic, EST= Eastern, CST= Central, MST= Mountain, PST= Pacific, AKT= Alaska, HAT=Hawaiian time zone. Confirm with the TIME SET button and move to DST.
- DAYLIGHT SAVING TIME: **DST** will flash and the word **ON**. Press and release the ARROW buttons to turn this to OFF if you do not observe DST. Confirm with the TIME SET button and move to 12/24 hour time.
- 12/24 HOUR TIME: **12H** will flash. Press and release the ARROW buttons to select 24H. Confirm with the TIME SET button and move to the hour.
- HOUR: The **hour** will flash. Press and release the ARROW buttons to select the correct hour. Confirm with the TIME SET button and move to the minutes.
- MINUTES: The **minutes** will flash. Press and release the ARROW buttons to adjust the minutes. Confirm with the TIME SET button and move to the year.
- YEAR: The **year** will flash. Press and release the ARROW buttons to select the correct year. Confirm with the TIME SET button and move to the month.
- MONTH: The **month** will flash. Press and release the ARROW buttons to select the correct month. Confirm with the TIME SET button and move to the date.
- DATE: The **date** will flash. Press and release the ARROW buttons to select the correct date. Confirm with the TIME SET button and move to F/C.
  Note: The Day of the Week will set automatically when the year, month and date are set.
- FAHRENHEIT/CELSIUS: **°F** will flash. Press and release the ARROW buttons to select Fahrenheit or Celsius. Confirm with the TIME SET button and exit.

Alarm Set

- ALARM HOUR: Hold ALARM button for three seconds to enter alarm setting mode. The **alarm hour** will flash. Use the ARROW buttons to set the hour. Press and release the ALARM button.
- ALARM MINUTE: The **alarm minutes** will flash. Use the ARROW buttons to set the minutes. Press the ALARM button to exit.

Alarm Activate/Deactivate

- Press and release the ALARM button once to show Alarm Time.
- Press and release the ALARM button repeatedly to activate or deactivate the alarm.
- The alarm icon appears when alarm is activated.

Snooze

- When the alarm sounds, press the SNOOZE/LIGHT button to trigger snooze alarm for 10 minutes. The snooze icon **Zz** will flash when the snooze feature is active.
- To stop alarm for one day, press ALARM button, while in snooze mode. The alarm icon will remain solid.
  Note: The alarm is crescendo sound. When the alarm sounds, it continues for 2 minutes and then shuts off completely.

WWVB Radio-Controlled Time

The NIST radio station, WWVB, is located in Ft. Collins, Colorado and transmits the exact time signal continuously throughout the United States at 60 kHz. The signal can be received up to 2,000 miles away through the internal antenna in the Wireless Color Weather Station. However, due to the nature of the Earth's Ionosphere, reception is very limited during daylight hours. The weather station will search for a signal every night when reception is best.

WWVB reception icon with full signal strength will appear screen when reception of atomic time signal is successful.

- No tower icon displayed. The weather station was unable to receive a signal at this time.
- Reposition the weather station for better signal reception or try again at bedtime.
- The weather station will start searching at UTC: 07:00 and if no reception on the first attempt they will try again at 08:00, 09:00 and 10:00.
- If the signal is good it may catch a signal in ABOUT 2-3 minutes.
- If the signal is marginal it will try to catch a signal for up to 10 minutes.
- If there is no signal or too much interference the receiver will only be on for 2 minutes.
- Press and release the TIME SET button to start or stop a manual signal search.

Note: In case the weather station is not able to detect the WWVB-signal (disturbances, transmitting distance, etc.); the time may be manually set.

Backlight

A/C adapter: The backlight is on continuously, when operating the weather station with the 5-volt A/C adapter. Press and release the HI-LOW-OFF button to change the backlight brightness.

- **HI:** Brightest intensity (default).
- **LO:** Press and release the HI-LOW-OFF button to dim the backlight.
- **OFF:** Press and release the HI-LOW-OFF button again, to turn the backlight off for sleep. Press again to return to full strength.

Note: When the backlight is off, press any button to activate the backlight for 10 seconds

Battery power only: Press and release the HI-LOW-OFF button and the backlight will show for 10 seconds.
Note: When the adapter is NOT in use, the HI-LOW-OFF light feature is not available.

MAX/MIN Temperature/Humidity Data

The weather station shows daily minimum and maximum temperatures each day starting at midnight (12:00 AM). The weather station automatically resets the min/max temperatures at midnight (12:00 AM).

- **View MAX data:** Press and release the UP ARROW button once to view maximum temperature and humidity values for indoor and outdoor data.
- **Reset MAX data:** Hold the UP ARROW button for five seconds to reset maximum temperature and humidity values for indoor and outdoor data.
- **View MIN data:** Press and release the DOWN ARROW button once to view minimum temperature and humidity values for indoor or outdoor data.
- **Reset MIN data:** Hold the DOWN ARROW button for five seconds to reset minimum temperature and humidity values for indoor and outdoor data.

Heat Index

Heat Index combines the effects of heat and humidity. This is the apparent temperature of how hot it feels to a human being.
Note: Heat index will be the same number as the temperature until the temperature is above 80°F (26.7°C).

View Heat Index: From a normal display press the HEAT/DEW button once and Heat Index will show instead of the ambient temperature.

Dew Point

Dew point is the saturation point of the air, or the temperature to which the air has to be cooled in order to create condensation.
Note: Dew Point generally is lower than the temperature.

View Dew Point: From a normal display press the HEAT/DEW button twice and Dew Point will show instead of the ambient temperature.

Weather Forecast Icons

The weather station predicts weather condition of the next 12-hours based on the change of atmospheric pressure with 70-75% accuracy.
Note: As weather conditions cannot be 100% correctly forecasted we are not responsible for any loss caused by an incorrect forecast.
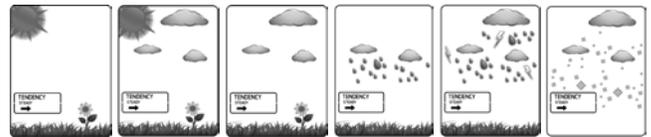
SUNNY   PARTLY SUNNY   CLOUDY   RAINY   STORMY   SNOWY

Note: The "snowy" icon appears when the temperature is below 32°F (0°C) and the forecast is rainy or stormy.

THIS STATION LEARNS
The weather station calibrates barometric pressure based on its location over a period of time to generate an accurate, personal forecast. Please allow 3 to 4 weeks for barometer calibration.
The forecast station samples the barometric pressure every twelve minutes. These samples are averaged hourly and daily then stored in nonvolatile memory. The three hour pressure icon change is based off of the last four average hourly readings.

IMPORTANT: As the weather station builds memory, it will compare the current average pressure to the past forty day average pressure for increased accuracy. The longer the weather station operates in one location the more accurate the forecast icons will be.

Set Temperature Alert Values

Hold the ALERT button for five seconds, until the weather station beeps, to select and set temperature alert values.

- **OUTDOOR HIGH** alert will flash. Press the ARROW buttons to set the alert value, and press the ALERT button to confirm. Then press the ALERT button again switch to OUTDOOR LOW setting.
- **OUTDOOR LOW** alert will flash. Press the ARROW buttons to set the alert value, and press the ALERT button to confirm. Then press the ALERT button again switch to INDOOR HIGH setting.
- **INDOOR HIGH** alert will flash. Press the ARROW buttons to set the alert value, and press the ALERT button to confirm. Then press the ALERT button again switch to INDOOR LOW setting.

- **INDOOR LOW** alert will flash. Press the ARROW buttons to choose the value, and press the ALERT button to confirm and exit.

Note: After selecting temperature alert values use the next step to turn individual alerts ON or OFF.

Arm/Disarm Temperature Alerts

- In normal time mode, press and release the ALERT button to toggle between:
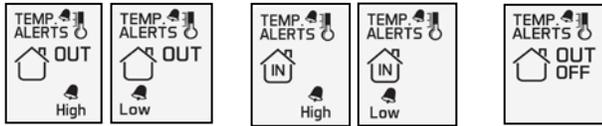
- Press the UP ARROW button to turn the selected alert ON. The alert icon 🔔 appears when each alarm is activated.
- Press the DOWN ARROW button to turn the selected alert OFF.

Temperature Alert Sounds

- When temperature alert sounds, the corresponding alert icon 🔔 will flash.
- The alert beeps once every minute, until the temperature is out of alert range.
- Press any button to stop alert. The alert symbol 🔔 will still show.
- Turn alert OFF: In normal mode, hold and release the ALERT button to select the alert to turn off. With HI or LO alert selected, press the DOWN ARROW button to turn that alert OFF.

Temperature/Humidity Trend Indicators

The indoor and outdoor temperature trend indicators will update every 30 minutes or less. These trends represent temperature changes over the past three hours.

 Rising — Temperature rose more than 2°F /1°C in the past three hours. Humidity rose more than 3% RH in the past three hours

 Steady — Temperature has **not changed** more than 2°F /1°C in the past three hours. Humidity has **not changed** more than 3% RH in the past three hours.

 Falling — Temperature fell more than 2°F /1°C in the past three hours. Humidity fell more than 3% RH in the past three hours

Humidity trend indicator

Forecast Trend Indicators

The forecast tendency indicators in the lower left corner of the forecast display indicate the rising or falling pressure trend.

- The up trending arrow indicates the pressure is rising and the weather is improving.
- The down trending arrow indicates the pressure is falling and the weather may worsen.
- The right arrow indicates the pressure is steady.

Position the Weather Station

The weather station is free standing with the fold out base stand or can be wall mounted.

Wall mounted:
- Fix three screws (not included) into the desired wall, leaving the head extended about 0.2 inches (5mm).
- Hang the weather station onto the screws. Ensure that it locks into place before releasing the weather station.
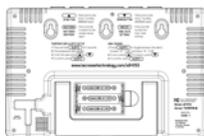
Free standing: Simply pull out the stand from the back of the weather station and place on a flat surface.

Position:
- Choose a location 6 feet or more from electronics such as cordless phones, gaming systems, televisions, microwaves, routers, baby monitors, etc., which can prevent signal reception.
- Place within range of the outdoor transmitters. The maximum transmitting range in open air is 200-feet (60 meters).
- Be aware of electrical wires and plumbing within a wall. This will interfere with signal reception.
- Obstacles such as walls, windows, stucco, concrete, and large metal objects can reduce the range.
- For best WWVB reception, place with the front or back facing Colorado, near and exterior wall.

Position the Outdoor Transmitter

Once the weather station shows the outdoor temperature/humidity, place it and the transmitter in the desired locations and wait approximately 1-hour before permanently mounting the transmitter to ensure that there is proper reception. The transmitter should be mounted vertically, in a shaded, protected area, at least 6 feet from the ground to avoid damage and ensure accurate readings. The transmitter is water resistant, not waterproof and should not be placed anywhere it will become submerged in water or subject to standing water or snow. Wireless transmitting range in open air is over 200-feet (60 meters) from outdoor transmitter to weather station.

Option 1:
- Install one mounting screw (not included) into a wall leaving approximately ½ of an inch (12.7mm) extended.
- Place the transmitter onto the screw, using the hanging hole on the backside.
- Gently pull the transmitter down to lock the screw into place.
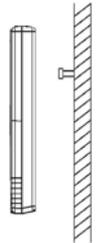
Option 2:
- Insert the mounting screw (not included) through the front of the transmitter and into the wall.
- Tighten the screw to snug (do not over tighten).

To achieve a true temperature/humidity reading, mount where direct sunlight cannot reach the outdoor transmitter. Mount the outdoor transmitter on a North-facing wall or in any well shaded area. Under an eave or deck rail work well. The maximum transmitting range in open air is over 200-feet (60 meters). Obstacles such as walls, windows, stucco, concrete, and large metal objects can reduce the range. Place the transmitter at least 6 feet in the air to improve signal transmission.

Care and Maintenance

- **Do Not Mix Old and New Batteries**
- **Do Not Mix Alkaline, Standard, Lithium or Rechargeable Batteries**
- Do not expose the weather station to extreme temperatures, vibration or shock.
- Clean weather station with a soft damp cloth. Do not use solvents or scouring agents.
- The product is not a toy. Keep it out of reach of children.
- The product is not to be used for medical purpose or for public information. It is for home use only.
- The specifications of this product may change without prior notice.
- Improper use or unauthorized opening of housing will void the warranty.
- If the unit does not work properly, change the batteries and/or check the A/C cord connection.

Low Battery

- When this low battery icon 🔋 appears in the indoor (IN) reading section, replace the batteries in the weather station.
- When this low battery icon 🔋 appears in the outdoor (OUT) readings section, replace the batteries in the outdoor transmitter.

Specifications

Indoor Temperature Range:	+32°F to +122°F (0°C to + 50°C)
Humidity Range:	19%-97% (RH)
Outdoor Temperature Range:	-40°F to 140°F (-40°C to 60°C)
Humidity Range:	19%-97% (RH)
Distance:	Over 200 ft. (60 meters)
	RF 433MHz (open air)
Power Requirements	
Weather Station:	5-volt A/C power adapter (included)
	Optional 3-AA, IEC, LR6 batteries (not included)
TX141TH-B Transmitter:	2-AA, IEC, LR6 batteries (not included).
Battery Life TX141TH-B:	Battery life is over 1 year when using reputable battery brands for both Alkaline and Lithium batteries
	Use Alkaline batteries for temps: -20ºF to 140ºF (-29ºC to 60ºC)
	Use Lithium batteries for temps: -40ºF to -20ºF (-40ºC to -29ºC)
Weather Station	
Battery Life:	Battery life is over 3 years with A/C adapter in use
Dimensions:	
Weather Station:	8.34" L x 1.03" W x 5.48" H (211.836 x 26.162 x 139.192mm)
TX141TH-B:	2.4" L x 1.3" W x 3.78" H (64 x 36 x 101mm)

Warranty Information

La Crosse Technology, Ltd provides a 1-year limited warranty on this product against manufacturing defects in materials and workmanship.

This limited warranty begins on the original date of purchase, is valid only on products purchased and used in North America and only to the original purchaser of this product. To receive warranty service, the purchaser must contact La Crosse Technology, Ltd for problem determination and service procedures. Warranty service can only be performed by a La Crosse Technology, Ltd authorized service center. The original dated bill of sale must be presented upon request as proof of purchase to La Crosse Technology, Ltd or La Crosse Technology, Ltd's authorized service center.
La Crosse Technology, Ltd will repair or replace this product, at our option and at no charge as stipulated herein, with new or reconditioned parts or products if found to be defective during the limited warranty period specified above. All replaced parts and products become the property of La Crosse Technology, Ltd and must be returned to La Crosse Technology, Ltd. Replacement parts and products assume the remaining original warranty, or ninety (90) days, whichever is longer. La Crosse Technology, Ltd will pay all expenses for labor and materials for all repairs covered by this warranty. If necessary repairs are not covered by this warranty, or if a product is examined which is not in need of repair, you will be charged for the repairs or examination. The owner must pay any shipping charges incurred in getting the La Crosse Technology, Ltd product to a La Crosse Technology, Ltd authorized service center. La Crosse Technology, Ltd will pay ground return shipping charges to the owner of the product to a USA address only.

The La Crosse Technology, Ltd warranty covers all defects in material and workmanship with the following specified exceptions: (1) damage caused by accident, unreasonable use or neglect (including the lack of reasonable and necessary maintenance); (2) damage occurring during shipment (claims must be presented to the carrier); (3) damage to, or deterioration of, any accessory or decorative surface; (4) damage resulting from failure to follow instructions contained in the owner's manual; (5) damage resulting from the performance of repairs or alterations by someone other than an authorized La Crosse Technology, Ltd authorized service center; (6) units used for other than home use (7) applications and uses that this product was not intended or (8) the products inability to receive a signal due to any source of interference.. This warranty covers only actual defects within the product itself, and does not cover the cost of installation or removal from a fixed installation, normal set-up or adjustments, claims based on misrepresentation by the seller or performance variations resulting from installation-related circumstances.

LA CROSSE TECHNOLOGY, LTD WILL NOT ASSUME LIABILITY FOR INCIDENTAL, CONSEQUENTIAL, PUNITIVE, OR OTHER SIMILAR DAMAGES ASSOCIATED WITH THE OPERATION OR MALFUNCTION OF THIS PRODUCT. THIS PRODUCT IS NOT TO BE USED FOR MEDICAL PURPOSES OR FOR PUBLIC INFORMATION. THIS PRODUCT IS NOT A TOY. KEEP OUT OF CHILDREN'S REACH.

This warranty gives you specific legal rights. You may also have other rights specific to the State. Some States do not allow the exclusion of consequential or incidental damages therefore the above exclusion of limitation may not apply to you.

For warranty work, technical support, or information contact:

La Crosse Technology, Ltd
2817 Losey Blvd. S.
La Crosse, WI 54601

The complete instruction manual is available at: www.lacrossetechnology.com/s84193

Contact Support:
1-608-782-1610
Product Registration:
www.lacrossetechnology.com/support/register
Protected under U.S. Patents:
5,978,738
6,076,044
6,597,990

FCC Statement

This Device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) the device must accept any interference received, including interference that may cause undesired operation. NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER AUTHORITY TO OPERATE THE EQUIPMENT

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